**PyCity Schools Trend Analysis**

**Data Facts:**

* Total number or schools: 15
* Total number of students: 39170
* Percentage of total students who pass Math: 75%
* Percentage of total students who pass Reading: 86%
* Overall passing rate: 80.4%

*Right off the bat it can be concluded that overall students struggle with math more than they struggle with reading. Let’s dig deeper to explore some details of the above statistical facts.*

**School Type success analysis:**

* All Charter type schools perform better overall than District type schools
* All Charter type schools except Bailey High School has 93.6%+ passing rate in Math and 96.5%+ in Reading with overall passing rate of 95%+
* Approximately 81%+ pass Reading and only 66.5%+ students pass Math in District type schools with overall passing rate of 73.6%
* Average Math Score in Charter type schools is 83.4% and Average Reading Score is 84%
* Average Math Score in District type schools is 77% and Average Reading Score is 81%

*It is clear that the Charter schools perform better than District schools especially according to the percentage of students pass Math, 93.6 vs 66.5. The difference is notable.*

*Reading scores are comparable in both types of schools, which only mean that Charter type schools are focused more on performance of students in Math.*

**School Size success analysis:**

* Based on 3 size groups schools with small to medium size perform better. Overall 95% passing rate versus 76%.

*Although it was not specifically analyzed but it can be seen from numerous tables that the Charter schools are of small to medium size and District schools are large schools. It can be seen School Size success analysis results yield almost identical results to School Type success analysis .*

**Scores by School Spending per Student:**

*It is notable that the schools with less expenditure on each student perform better in both Math and Reading results. This is because the Charter schools happen to provide cheaper and superior education than the District schools and manage their expenses efficiently.*

*Additionally, Math and Reading scores by grades also analyzed but did not yield particularly interesting results. Students perform identical throughout the high school years.*